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Thomas Kunz , Michiel F. H. Seuren
Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research November 1997
Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 PIROL: a case study for multidimensional separation of concerns in software engineering environments 82%
Stephan Herrmann , Mira Mezini
ACM SIGPLAN Notices , Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications October 2000

Volume 35 Issue 10
In this paper, we present our experience with applying multidimensional separation of concerns to a software engineering environment. By comparing two different designs of our system, we show the importance of separating integration issues from the implementation of the individual concerns. We present a model in which integration issues are encapsulated into rst--class connector objects and indicate how this facilitates the understandability, maintenance and evolution of the system. We identify ...

3 Technical papers: component technologies: The Vienna Component Framework enabling composition across component models 77%
Johann Oberleitner , Thomas Gschwind , Mehdi Jazayeri
Pr ceedings f the 25th internati nal c nference n S ftware engineering May 2003

The Vienna Component Framework (VCF) supports the interoperability and composability of components across different component models, a facility that is lacking in existing component models. The VCF presents a unified component model---implemented by a façade component---to the application programmer. The programmer may write new components by composing components from different component models, accessed through the VCF. The model supports common component features, namely, methods, prop ...

4 Distributed systems - programming and management: On remote procedure call 77%

Patrícia Gomes Soares

Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2 November 1992

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ...

5 Distributed environment: High-level language support for programming distributed systems 77%

J. S. Auerbach , D. F. Bacon , A. P. Goldberg , G. S. Goldszmidt , M. T. Kennedy , A. R. Lowry , J. R. Russell , W. Silverman , R. E. Strom , D. M. Yellin , S. A. Yemini

Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research October 1991

This paper presents a strategy for simplifying the programming of heterogeneous distributed *multiapplications*. A multiapplication is a distributed system or a collection of autonomous applications which occasionally interact, such as a bank and its customers. Our approach is based on designing a machine-and language-independent *process model*, and integrating the abstract primitives for process creation, connection, and communication into programming languages. Our goal is to make i ...

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B. Medjahed , B. Benatallah , A. Bouguettaya , A. H. H. Ngu , A. K. Elmagarmid

The VLDB Journal — The International Journal on Very Large Data Bases May 2003

Volume 12 Issue 1

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

7 The making of Orbix and the iPortal suite 77%

Sean Baker

Proceedings f the 22nd internati nal c nference on S ftware engineering June 2000

IONA released the first full implementation of the CORBA standard in August 1992, and our first product, Orbix, has become the most successful object request broker,

capturing almost 70-percent of this market. It has spawned many follow-on products from IONA and from partner companies. This development followed nearly ten years of research in the area of distributed object systems within Trinity College Dublin, centered on language support for developers of distributed systems.Th ...

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Neil Roodyn , Wolfgang Emmerich
Proceedings of the 21st international conference on Software engineering May 1999

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Pietro Iglio , Giuseppe Attardi
Proceedings of the 1998 international symposium on Symbolic and algebraic computation August 1998

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Peter Wegner
ACM Computing Surveys (CSUR) March 1996
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Scott Arthur Moody
Proceedings of the conference on TRI-Ada '96: disciplined software development with Ada December 1996

12 A transformational approach to generating application-specific environments 77%
David Garlan , Linxi Cai , Robert L. Nord
ACM SIGSOFT Software Engineering Notes , Proceedings of the fifth ACM SIGSOFT symposium on Software development environments November 1992
Volume 17 Issue 5
Current software development environments tend to lie at opposite ends of a spectrum: at one extreme are specialized application generators; at the other are general-purpose programming environments. The former provide strong support for system development and reuse, but are costly to build and available only for limited domains. The latter provide weak support, but are generally available and universally applicable. We describe a technique for automating the production of applic ...

13 The design and implementation of hierarchical software systems with reusable components 77%
Don Batory , Sean O'Malley
ACM Transactions on Software Engineering and Methodology (TOSEM) October 1992
Volume 1 Issue 4
We present a domain-independent model of hierarchical software system design and construction that is based on interchangeable software components and large-scale reuse. The model unifies the conceptualizations of two independent projects, Genesis and Avoca, that are successful examples of software component/building-block technologies and domain modeling. Building-block technologies exploit large-scale

reuse, rely on open architecture software, and elevate the granularity of programming to ...

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